FIG. 1

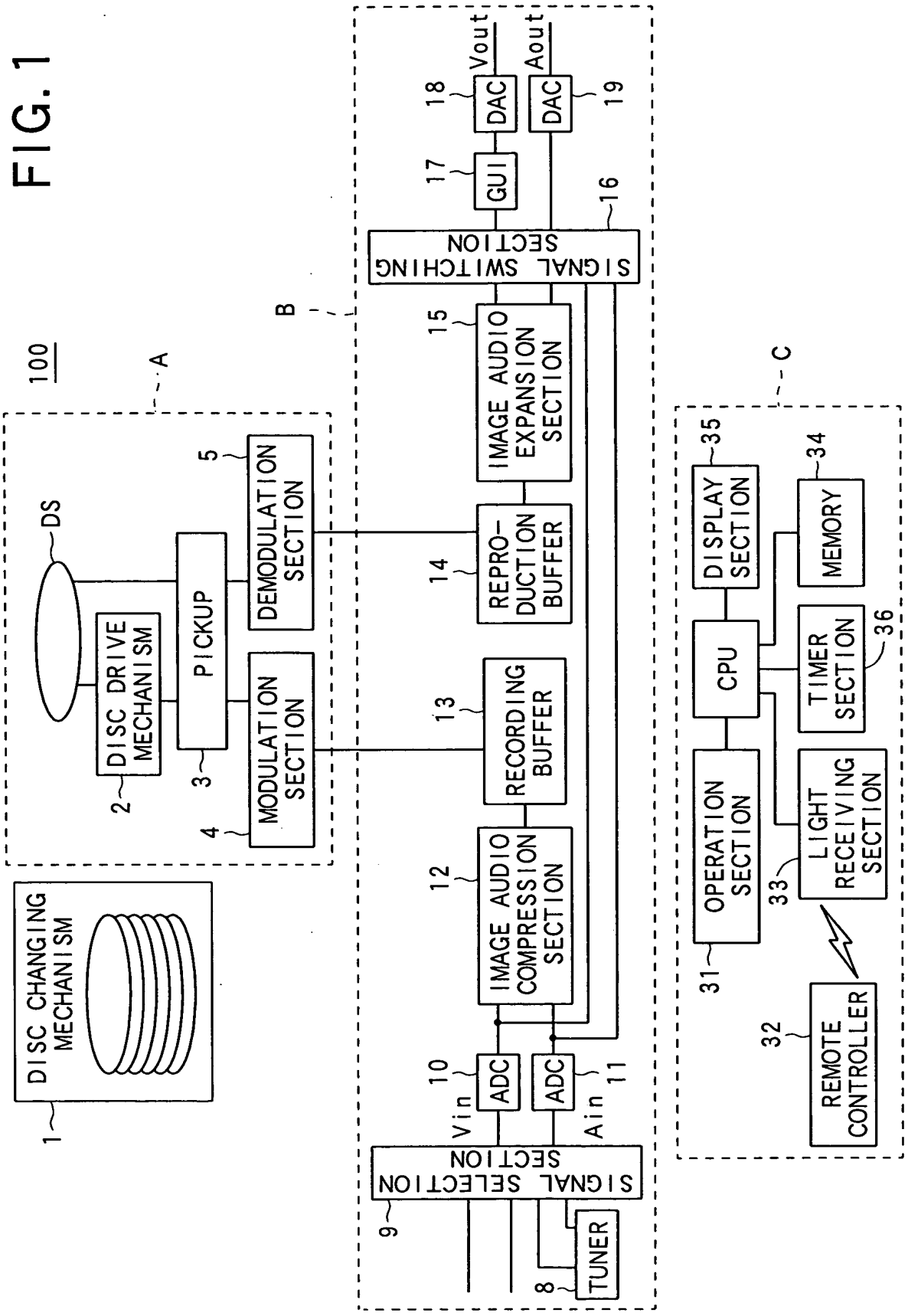

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FIG. 2

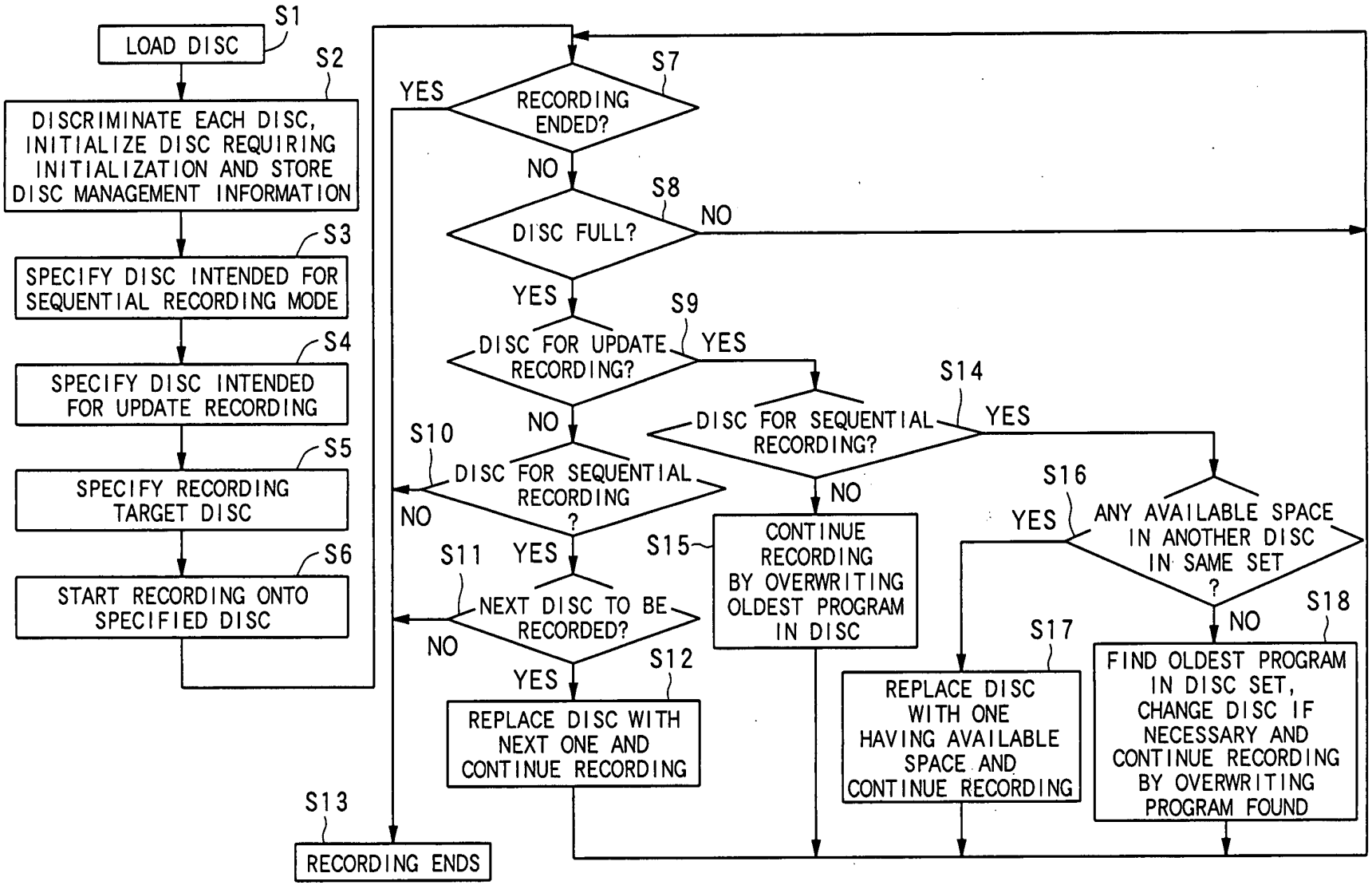

S1
LOAD DISC
S2
DISCRIMINATE EACH DISC, INITIALIZE DISC REQUIRING INITIALIZATION AND STORE DISC MANAGEMENT INFORMATION
S3
SPECIFY DISC INTENDED FOR SEQUENTIAL RECORDING MODE
S4
SPECIFY DISC INTENDED FOR UPDATE RECORDING
S5
SPECIFY RECORDING TARGET DISC
S6
START RECORDING ONTO SPECIFIED DISC
S7
RECORDING ENDED?
YES
NO
S8
DISC FULL?
NO
YES
S9
DISC FOR UPDATE RECORDING?
YES
NO
S10
DISC FOR SEQUENTIAL RECORDING ?
NO
YES
S11
NEXT DISC TO BE RECORDED?
NO
YES
S12
REPLACE DISC WITH NEXT ONE AND CONTINUE RECORDING
S13
RECORDING ENDS
S14
DISC FOR SEQUENTIAL RECORDING?
YES
NO
S15
CONTINUE RECORDING BY OVERWRITING OLDEST PROGRAM IN DISC
S16
ANY AVAILABLE SPACE IN ANOTHER DISC IN SAME SET ?
YES
NO
S17
REPLACE DISC WITH ONE HAVING AVAILABLE SPACE AND CONTINUE RECORDING
S18
FIND OLDEST PROGRAM IN DISC SET, CHANGE DISC IF NECESSARY AND CONTINUE RECORDING BY OVERWRITING PROGRAM FOUND

FIG. 3

DISC SPECIFICATION

DISC	INDEPENDENT	SET 1	SET 2
No. 1		⇒ 1	
No. 2		⇒ 2	
No. 3			⇔ 1
No. 4	⇒		
No. 5			⇔ 2
No. 6	⇔		
No. 7	○		

○ : PLAYBACK ⇒ : SINGLE RECORDING ⇔ : AUTOMATIC UPDATE

FIG. 4

TIMER PRESELECTION

No.	DATE	START	END	INPUT	MODE	DISC
1	07/02	19:00	19:30	01	SP	No. 4
2	07/05	20:00	23:30	08	SP	SET 1
3	EVERY FRIDAY	21:00	22:00	06	LP	SET 2
4	EVERY DAY	18:00	18:30	06	SP	No. 6
5						
6						
7						
8						

FIG. 5

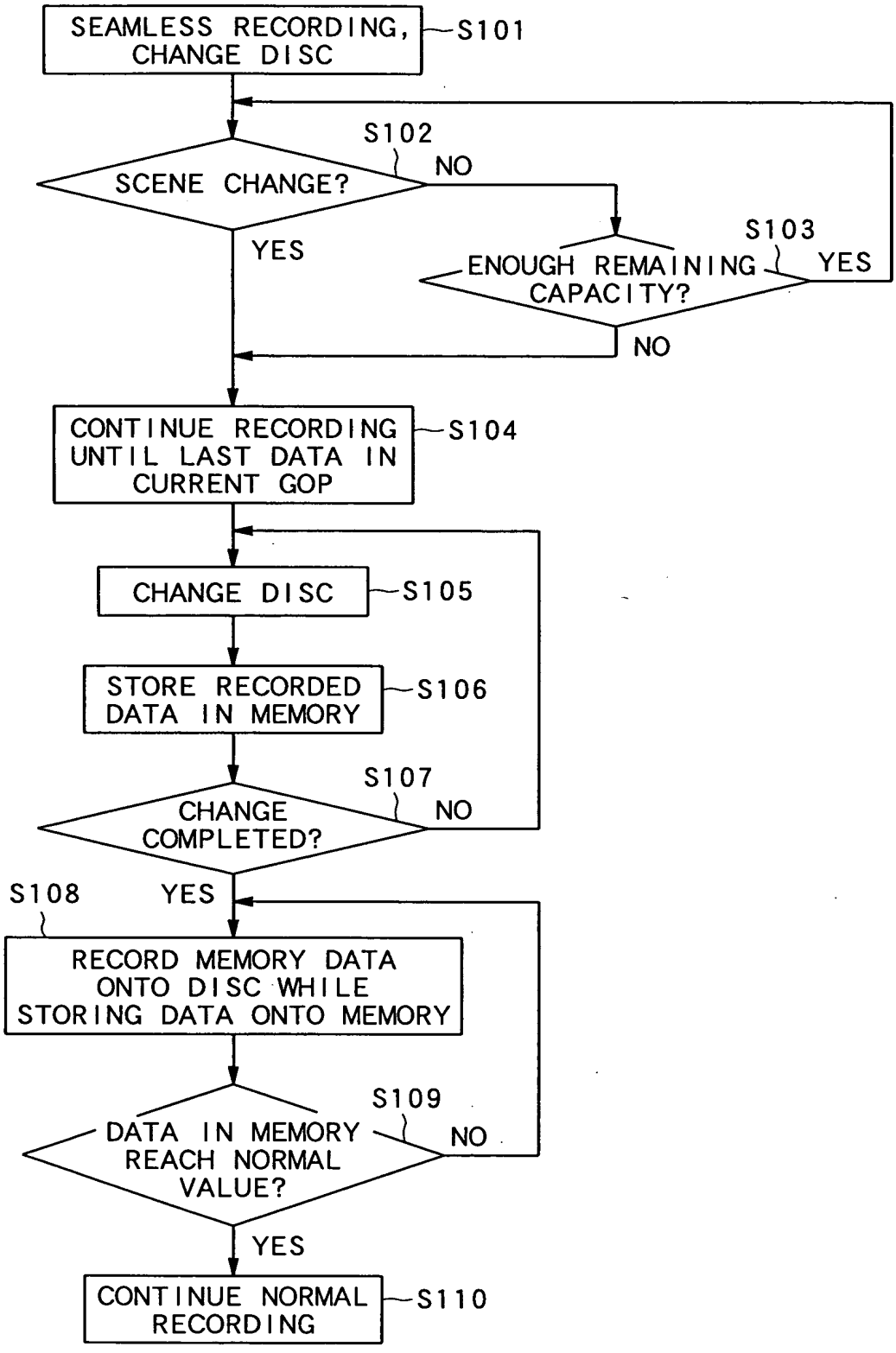

SEAMLESS RECORDING, CHANGE DISC
S101
S102
SCENE CHANGE?
NO
YES
S103
ENOUGH REMAINING CAPACITY?
YES
NO
CONTINUE RECORDING UNTIL LAST DATA IN CURRENT GOP
S104
CHANGE DISC
S105
STORE RECORDED DATA IN MEMORY
S106
S107
CHANGE COMPLETED?
NO
S108
YES
RECORD MEMORY DATA ONTO DISC WHILE STORING DATA ONTO MEMORY
S109
DATA IN MEMORY REACH NORMAL VALUE?
NO
YES
CONTINUE NORMAL RECORDING
S110

FIG. 6

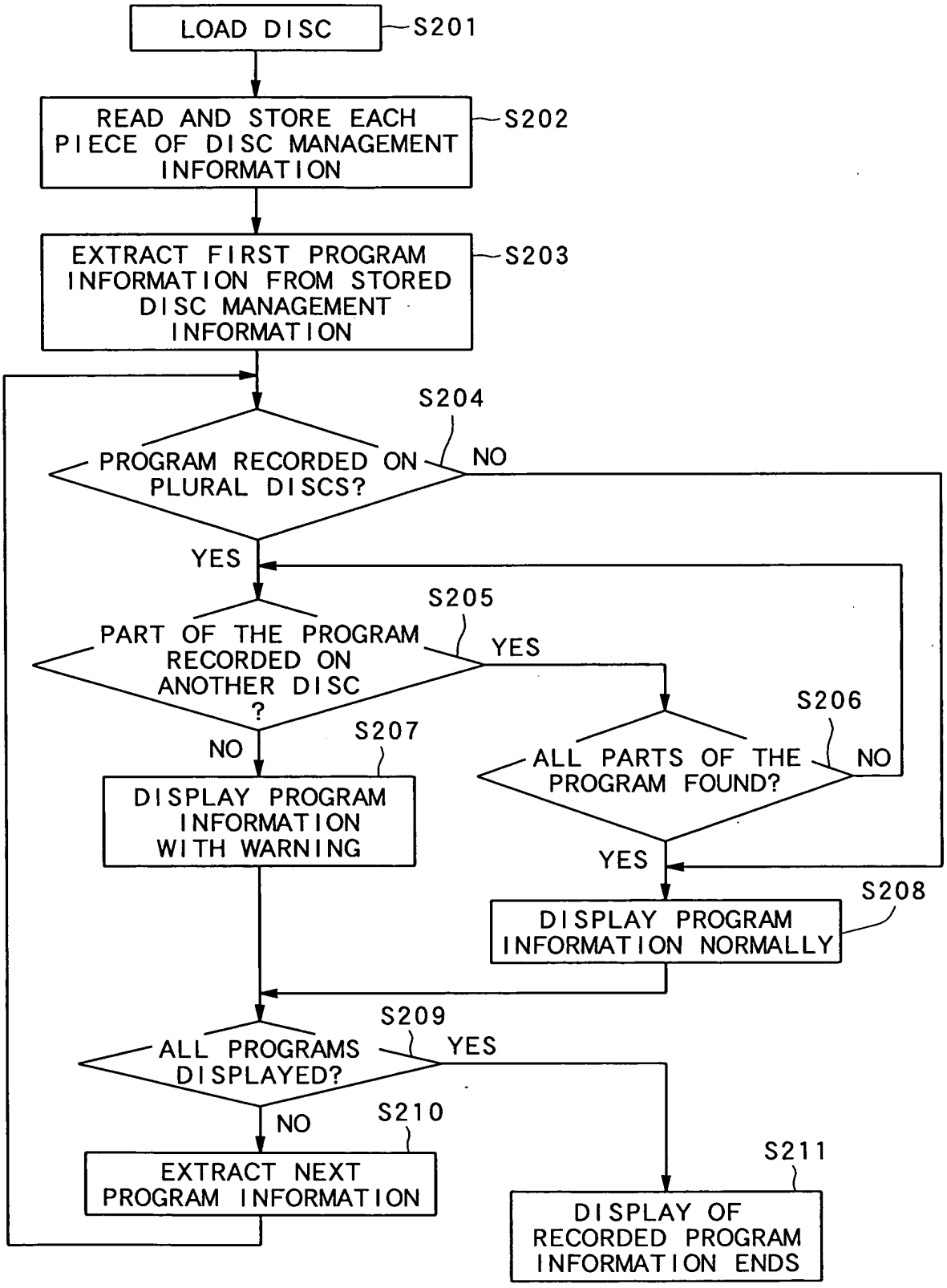

LOAD DISC
S201
READ AND STORE EACH PIECE OF DISC MANAGEMENT INFORMATION
S202
EXTRACT FIRST PROGRAM INFORMATION FROM STORED DISC MANAGEMENT INFORMATION
S203
S204
PROGRAM RECORDED ON PLURAL DISCS?
NO
YES
S205
PART OF THE PROGRAM RECORDED ON ANOTHER DISC ?
YES
NO
S206
ALL PARTS OF THE PROGRAM FOUND?
NO
YES
S207
DISPLAY PROGRAM INFORMATION WITH WARNING
S208
DISPLAY PROGRAM INFORMATION NORMALLY
S209
ALL PROGRAMS DISPLAYED?
YES
NO
S210
EXTRACT NEXT PROGRAM INFORMATION
S211
DISPLAY OF RECORDED PROGRAM INFORMATION ENDS

FIG. 7

No.	TITLE	Volume
DISC 1		
1	WORLD CUP FINAL	
2	FROM THE NORTH COUNTRY	−1/2
DISC 2		
1	FROM THE NORTH COUNTRY	−2/2
DISC 3		
1	TOSHIIE AND MATSU, 7/7/2002	
2	TOSHIIE AND MATSU, 7/14/2002	−1/2
DISC 4		
1	TOSHIIE AND MATSU, 7/14/2002	−2/2
DISC 5		
1	NEWS, 7/10/2002	
2	NEWS, 7/11/2002	

FIG. 8

RECORDED PROGRAM

No.	TITLE	SEQUENTIALITY
1	FROM THE NORTH COUNTRY	×
2	WORLD CUP FINAL	
3	NEWS, 7/10/2002	
4	NEWS, 7/11/2002	
5	TOSHIIE AND MATSU, 7/7/2002	
6	TOSHIIE AND MATSU, 7/14/2002	×
7		
8		

FIG. 9

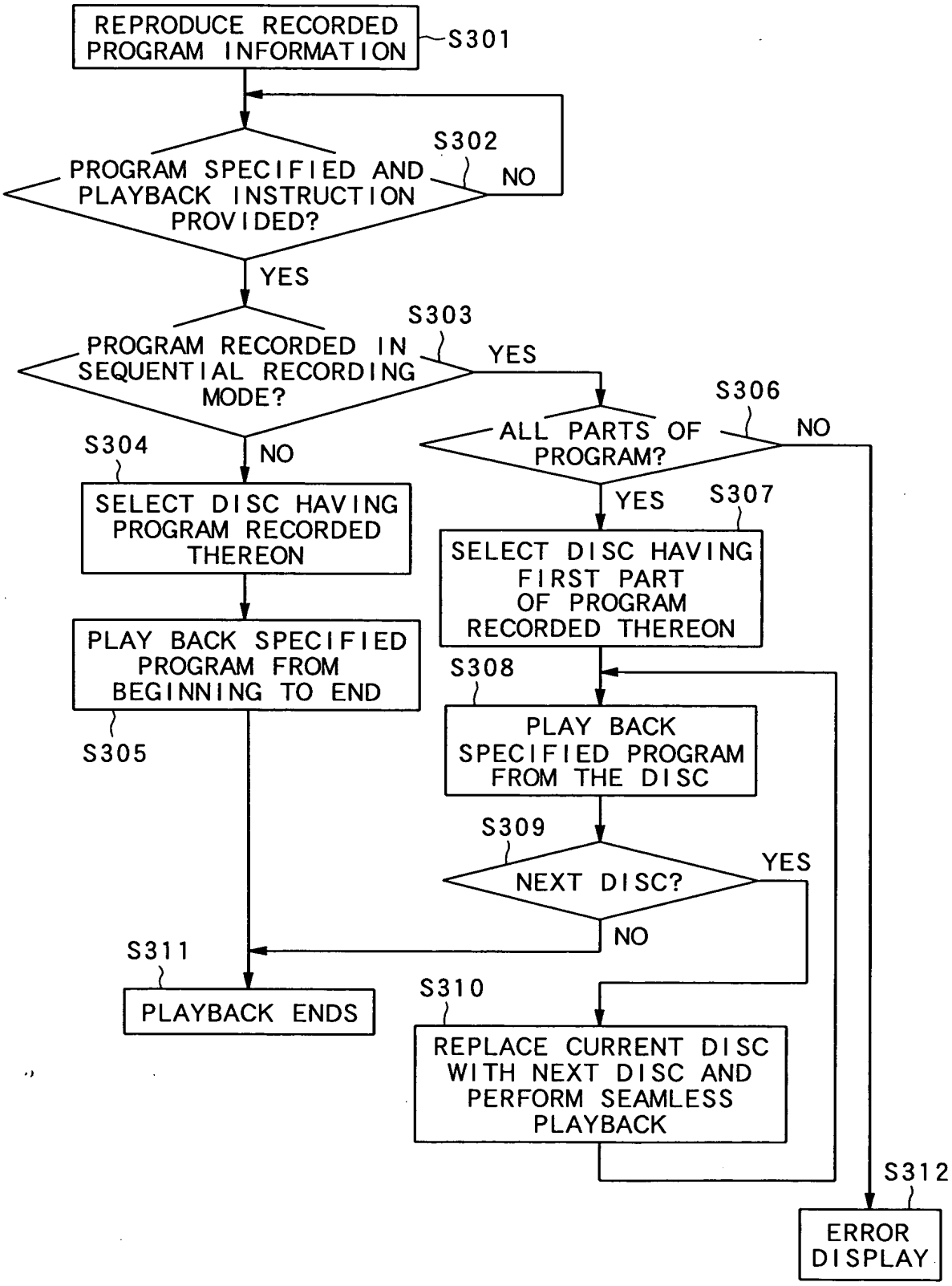

REPRODUCE RECORDED PROGRAM INFORMATION
S301
PROGRAM SPECIFIED AND PLAYBACK INSTRUCTION PROVIDED?
S302
NO
YES
PROGRAM RECORDED IN SEQUENTIAL RECORDING MODE?
S303
YES
NO
S304
SELECT DISC HAVING PROGRAM RECORDED THEREON
PLAY BACK SPECIFIED PROGRAM FROM BEGINNING TO END
S305
ALL PARTS OF PROGRAM?
S306
NO
YES
S307
SELECT DISC HAVING FIRST PART OF PROGRAM RECORDED THEREON
S308
PLAY BACK SPECIFIED PROGRAM FROM THE DISC
S309
NEXT DISC?
YES
NO
S311
PLAYBACK ENDS
S310
REPLACE CURRENT DISC WITH NEXT DISC AND PERFORM SEAMLESS PLAYBACK
S312
ERROR DISPLAY

FIG.10

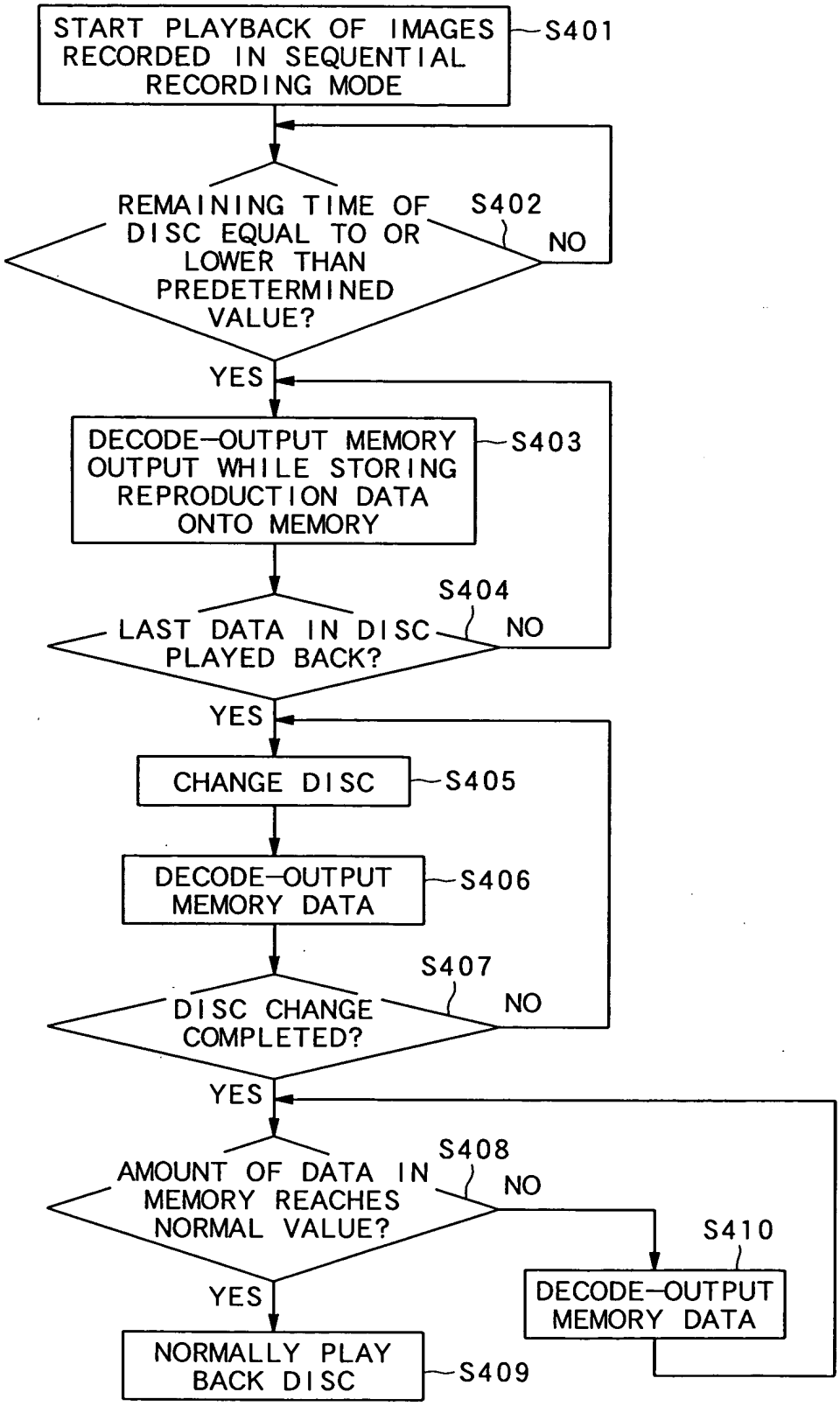

START PLAYBACK OF IMAGES RECORDED IN SEQUENTIAL RECORDING MODE
S401
REMAINING TIME OF DISC EQUAL TO OR LOWER THAN PREDETERMINED VALUE?
S402
NO
YES
DECODE-OUTPUT MEMORY OUTPUT WHILE STORING REPRODUCTION DATA ONTO MEMORY
S403
LAST DATA IN DISC PLAYED BACK?
S404
NO
YES
CHANGE DISC
S405
DECODE-OUTPUT MEMORY DATA
S406
DISC CHANGE COMPLETED?
S407
NO
YES
AMOUNT OF DATA IN MEMORY REACHES NORMAL VALUE?
S408
NO
YES
NORMALLY PLAY BACK DISC
S409
DECODE-OUTPUT MEMORY DATA
S410

FIG.11

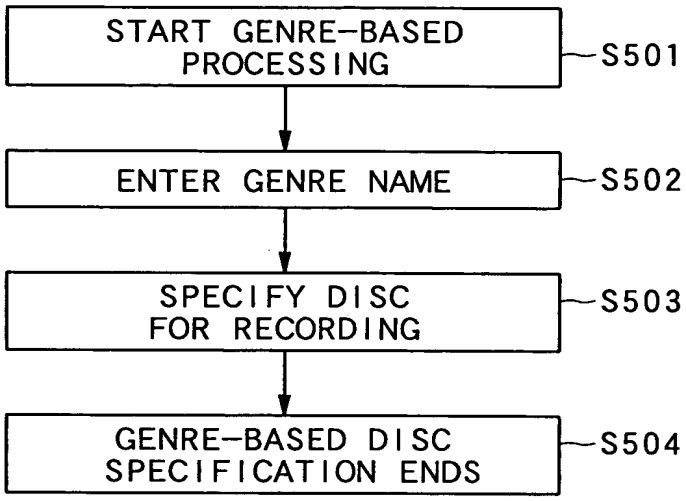

START GENRE-BASED PROCESSING
S501
ENTER GENRE NAME
S502
SPECIFY DISC FOR RECORDING
S503
GENRE-BASED DISC SPECIFICATION ENDS
S504

FIG.12

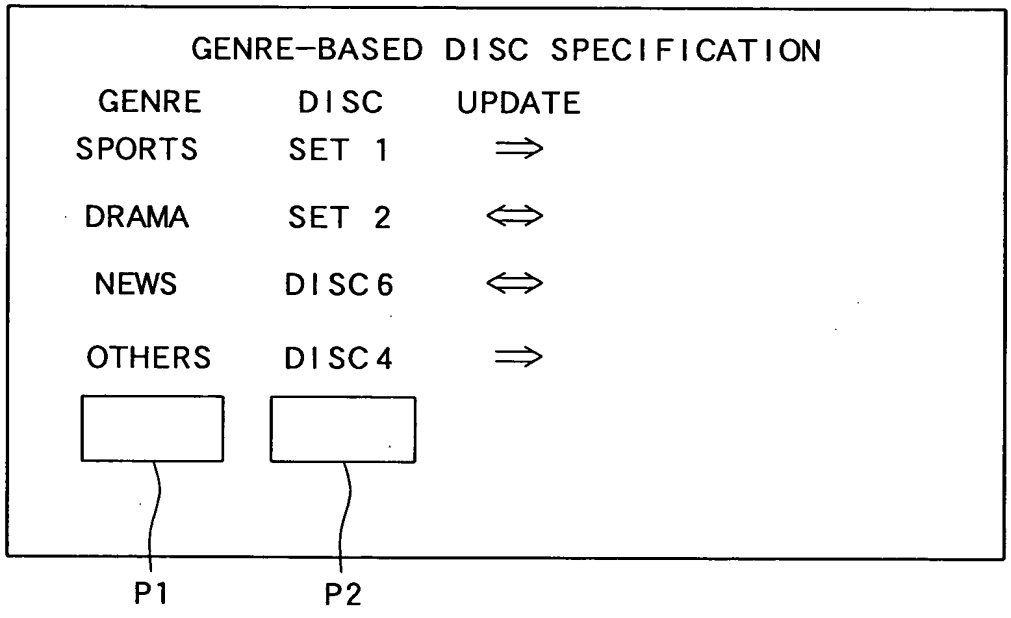

GENRE-BASED DISC SPECIFICATION
GENRE
DISC
UPDATE
SPORTS
SET 1
DRAMA
SET 2
NEWS
DISC 6
OTHERS
DISC 4
P1
P2

FIG.13

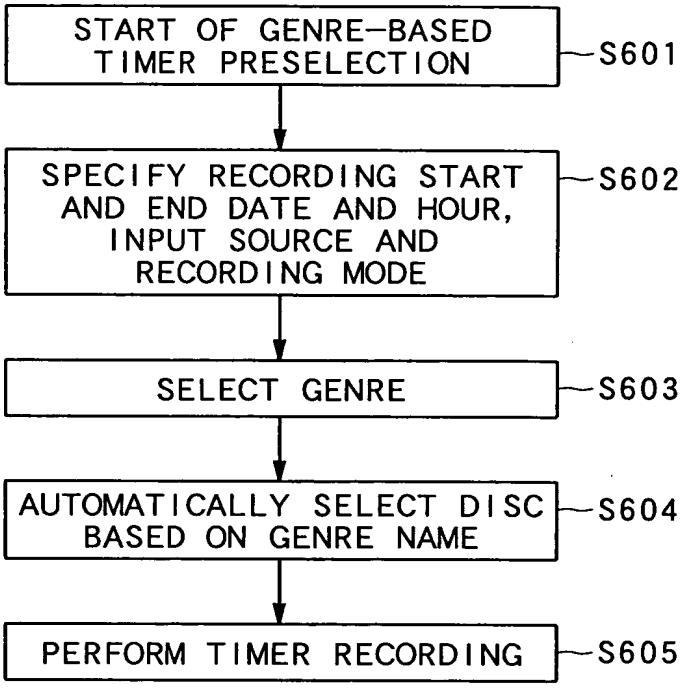
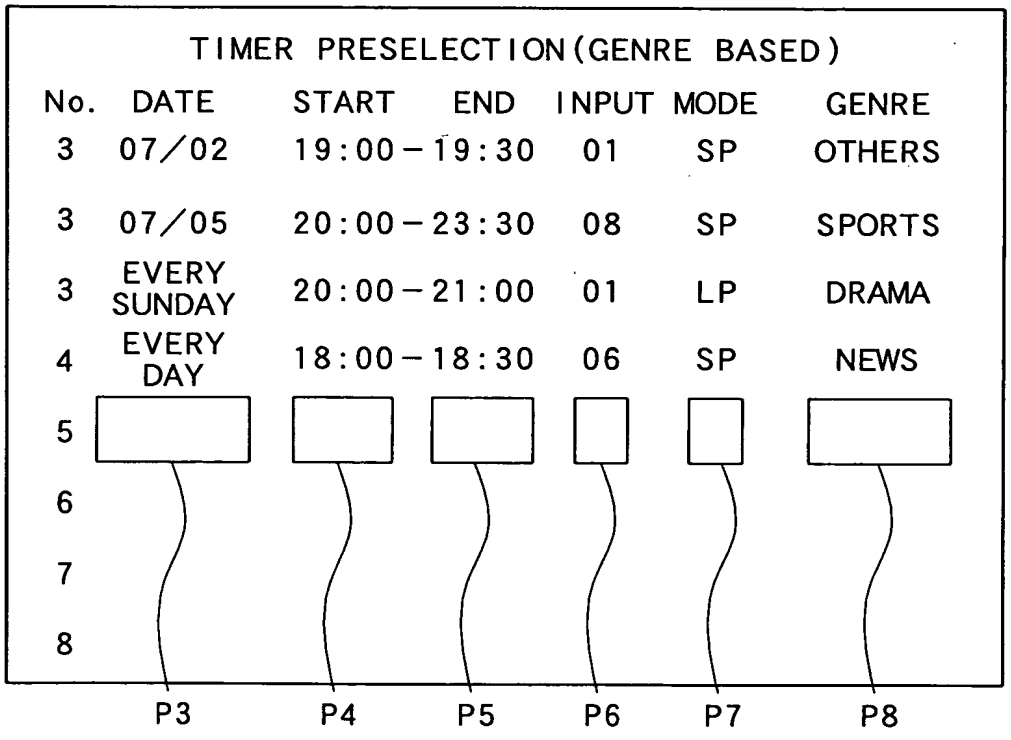

START OF GENRE-BASED TIMER PRESELECTION
S601
SPECIFY RECORDING START AND END DATE AND HOUR, INPUT SOURCE AND RECORDING MODE
S602
SELECT GENRE
S603
AUTOMATICALLY SELECT DISC BASED ON GENRE NAME
S604
PERFORM TIMER RECORDING
S605

FIG.14


TIMER PRESELECTION(GENRE BASED)
No. DATE START END INPUT MODE GENRE
3 07/02 19:00-19:30 01 SP OTHERS
3 07/05 20:00-23:30 08 SP SPORTS
3 EVERY SUNDAY 20:00-21:00 01 LP DRAMA
4 EVERY DAY 18:00-18:30 06 SP NEWS
5
6
7
8
P3
P4
P5
P6
P7
P8

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